	. Approved For Release 200	4/02/1 TOPA \$56 7	8 0 0 285 R00 0 3 0 0 1 5 0 0 1 3	:-9 25X
: •			Copy 18 July	25X1 7 of 12 7 1973
	MEMORANDUM FOR:		A Reconnaissance P	rograms
ļ	SUBJECT:	Program Pro	gress Report	
	Forwarded here	ewith are three	copies of the IDEAL	IST
	Program Progress Rep	port for the peri	od 1 April 1973 - 30	June 1973. 25X1
		В	rigadier General, U	SAF
25X1	Attachments - As stated			
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(10 July 1973) C/SAS/O/OSA

Distribution:

- 1 D/CRP
- 2 D/CRP
- 3 D/CRP
- 4 DDS&T Reg
- 5 D/SA
- 6 SAS/O/OSA
- 7 D/O/OSA
- 8 IDEA/O/OSA
- 9 INTEL/O/OSA
- 10 D/M/OSA
- 11 AMS/OSA
- 12 RB/OSA

Approved For Release 2004/02/1 CIA RDP75B 0285R008800150013-9 Section 1	25X1 25X1
IDEALIST	
OPERATIONAL SUMMARY AND STATUS	
(1 April 1973 - 30 June 1973)	
I. OPERATIONAL MISSION SUMMARY	
Thirteen IDEALIST TACKLE operational missions were alerted during this period.	
during ans period.	25X1
All missions were planned to be flown no closer than 25 nautical miles to the China mainland coast. The following is a summary of the missions flown:	25X1
2. Mission C143C was flown along the north central China coast. This mission was designed to collect SIGINT and photo information using the "H" configuration. The northern portion of the route was not flown due to unsuitable weather. The pilot reported 20 percent coverage of the planned southern flight lines prior to aborting the route for weather.	25X1
programmed targets, two bonus COMIREX, and two non-COMIREX targets were photographed.	25X1
3. Mission C153C was planned along the central China coast from Quemoy north to Shanghai. This mission was flown utilizing the "H" configuration. Due to weather, the northern portion of the mission was not flown; however, the pilot diverted to the east and flew the southern portion of the	25X1
Approved For Release 2004/02/11 - CARPETS ROOM 300150013 GROUP I EXCLUDED FR	OM

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	Approved For Release 2004/02/11 CIA-RDP75B0 285R000300150013-9 Section 1 Page 2	25X1 25X1
25X1 25X1	mission. programmed targets and two bonus non-COMIREX targets were photographed.	25X1
	4. Mission C163C was flown around the Paracel Islands and along the coast of Hainan Island to collect SIGINT and photo information using the "H" configuration. the pilot reported no unusual activities. programmed targets plus one bonus non-COMIREX target were photographed.	25X1 25X1 25X1A
25X1	5. Mission C183C, photo mission, was flown along the north central China coast. Only 30 percent coverage of the planned flight lines was obtained due to unsuitable weather along three portions of the route. Several (more than 10) fast moving ships heading east were sighted abeam Shanghai. programmed targets were covered. Three bonus COMIREX and five non-COMIREX targets were photographed.	25X1 25X1 25X1
25X1	6. Mission C193C was flown in the vicinity of the Paracel Islands and Hainan Island, utilizing the "H" configuration. Detailed analysis of the mission revealed that 80 percent of the route was covered by clouds. targets programmed were covered. Three bonus targets	25X1 25X1 25X1
	were covered; two COMIREX and one non-COMIREX.	

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			Section 1 Page 3	
II. A. film tests			lown in support of conti	nuing
		· ·	•	
D. [7 R 2 C	The state of the s		
-	"B" configuration	on.	ies were flown with the	
E. color cor	"H" Lens Te	est - Eleven sortie	s were flown to test the	e new
F. photograp	hy in support of	Four sorties this test program.	s were flown to provide	
	COMPASS T tion poppy plant being used for t	ings. The Delta an	s were flown over the C nd multi-spectral confi	entra gura-
H. the areas	flooded by the N	- Three sorties wississippi River.	were flown to photograp	oh

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				Section 1 Page 4	!5X1
III.		PILOT AND AIR	CRAFT STATUS (AS OF	30 JUNE 1973)	
	A.	Detachment "G"	Edwards AFB - North E	Base)	
		Aircraft	2 U-2R		
		Pilots		2	25X1
	в.	Detachment "H"			
		Aircraft	2 U-2R		
		Pilots		2 2	5X1 25X1

Section 2

IDEALIST

DEVELOPMENT SUMMARY AND PROGRESS

(1 April 1973 - 30 June 1973)

25X1

I. AIRFRAME

- A. Inspect and Repair as Necessary (IRAN) A decision to extend the IRAN cycle from 2500 hours to 3400 hours was made on 3 May 1973. This decision was made in view of the favorable condition found on U.S. Air Force airframes previously submitted for IRAN.
- B. J-75P13B Engine The installation of improved third stage turbine blades to increase engine life expectancy has continued during this quarter as engines come due for overhaul. Two additional sets of improved first stage turbine blades have been procured and a three engine test program will commence during the first quarter of FY 1974. These improvements should permit extension of Hot Section Inspection (HSI) an additional 100 hours, and of Time Between Overhaul (TBO) an additional 200 hours.

C. U-2R Flight Test and Operational Training Summary

- 1. IDEALIST Program accomplishments in U-2R aircraft since introduction include 11,270.6 hours on 3476 sorties as of 30 June 1973.
 - 2. Flight test and operational data are depicted below:

	1 APR-30 JUN FLIGHTS	1 APR-30 JUN TIME
1 - 051	42	110.5
2 - 053	44	102.4
3 - 054	53	204.3
4 - 055	<u>47</u>	<u>171.7</u>
TOTAL	186	588.9

Section 2 Page 2

II. PAYLOAD

A. "H" Configuration - Serial Number 002 reentered flight testing during this quarter; however, a secondary or "ghost" image was observable in high oblique angle testing. The mirror has been removed from the configuration and returned to the contractor's facility for further testing and analysis. At the end of this quarter, ultrasonic scanning of the mirror's brazed joints indicated separation had occurred in two areas. A math model indicated differential temperature gradients due to brazing separation and short term temperature changes could also be affecting test results.

B. "B" Configuration

- 1. Serial Number 229 experienced defocusing problems early in flight testing and was returned to the contractor's facility for solution. After duplication of in-flight problems in the altitude chamber, a plane of best off-axis focus was established and the unit reassembled with this plane aligned with the platen. Following further altitude chamber testing, the unit reentered the flight test program on 20 June 1973.
- 2. Serial Number 230 has completed all functional ground testing and altitude chamber testing and is scheduled to enter flight testing early in July 1973.
- C. Delta Research Camera The second f/3.5 apochromatic lens installation and variable slit modification to the scan heads of the Delta camera have been programmed to start during August 1973. The unit is scheduled to be in the modification process until January 1974.

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E. Q-E Bay Simulator - The Wright-Patterson Air Force Base simulator of Q-E Bay vibration, pressure, and temperature effects has been completed and will be operationally tested with an IRIS configuration during September 1973. Drawings necessary to construct hatches so that IDEALIST configurations can be tested in this simulator

have been made available to the Wright-Patterson Project Office. 25X1

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GROUP 1: EXCLUDED FROM **■** TOMATIC DOWNGRADING Approved For Release 2004/02/14 GIA SP275E00285R000300150013-9 25X1 25X1 Section 2 Page 4 25X1 Det "G" Man Hours Sorties Flying Hours TAC Maint Avionics 1 - 056 4 12.6 480 200 2 - 058 6 22.7 608 300 TOTAL , 10 35.3 1088 500

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GROUP 1: EXCLUDED FROM AUTOMATIC DOWNGRADING AUTOMATIC DOWNGRADING System Only Declassification

Section 2 Page 6

B. Life Support Activities

- Shark Deterrent Screen Contact has been made with Dr. C. Scott Johnson of the U.S. Navy, the inventor and principal investigator of a new shark deterrent device or as it is more commonly called, a shark bag. Dr. Johnson is forwarding one of the bags along with the early test results to Headquarters Life Support for evaluation. The major problem to date appears to be in miniturization packaging of this bag. In addition to its primary use in shark protection, the bag can also be used in overland survival as a sleeping bag, a water-collection device or for signaling.
- Glove Bladder Improvement The full pressure suit manufacturer, David Clark Company, is still investigating an improved bladder cloth for gloves. A weak area is evident in the stitching in the crotch of the fingers. Presently, in order to resolve this problem, a seamless glove has been fabricated using urethane as a part of the compound. Field evaluation should take place during the fall.
- Helmet Bearing Seal Improvement Six sets of redesigned seals are being field tested at Detachment "G". Initial results seem to indicate a considerable improvement, however, one seal did cause excessive abrasion to the mating teflon surface. of this specific problem has yet to be identified.
- S1010 Pilot Protective Assembly (PPA) Pressure Suit Fit Problem - It has become readily apparent in the past six months that the lower calf circumference must be increased for all subjects. Across the board enlargement in this area will be accomplished as pressure suits are returned to the factory for maintenance or rework.
- Parachute Harness Retaining Strap The RQ-225 parachute retainer strap that insures the proper position of the main riser has been causing some interference with the suit controller and vent hardware. The retainer is to be lengthened one inch and test jumps will be accomplished in August 1973. 25X1

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